[25th January 1928

## Appendix XI.

[Vide answer to question No. 1449 asked by Mr. A. Parasurama Rao at the meeting of the Legislative Council held on the 25th January 1928, page 260 supra.]

**Memorandum No. 16082 E/26-13, Public Works and Labour, dated 6th January 1928.**

[Tungabhadra Project—Investigation]

The Government desire that the preliminary investigation of the Tungabhadra project should be pushed on and they doubt whether the Subdivisional Officer, Hospet, and the Executive Engineer, Bellary Division, are able to give sufficient attention to it in addition to their regular duties.

2. The work for which a special staff has already been sanctioned in G.O. No. 2329 I., dated 13th October 1927, comprises—

(i) the preliminary investigation of line of canal to Anantapur and Dharmavaram taluks and the approximate area of land commanded therein ;

(ii) the taking of contour levels and the survey of the reservoir ;

(iii) gauging the flow of the river and taking velocity readings ;

(iv) the testing of the dam site.

3. The Chief Engineer's proposals for gaugings are apparently based on the suggestions of Sir John Benton in paragraph 22 of his note on page 39 of G.O. No 423 I., dated 2nd October 1909. It was not the intention of Sir John Benton and it is apparently not the opinion of the Chief Engineer now that the project should wait till the discharge observations are completed. For the proposed Thimmalapuram reservoir the method described by Sir John Benton in paragraph 21 of page 39 of the Government Order of 1909 may be adopted—as was done by Mr. Mackenzie in framing the estimates for the Mallapuram reservoir. The taking of gauge readings therefore need not delay the investigation and preparation of the project.

4. There is much preliminary work which could be done immediately. In addition to the taking of levels, the digging of trenches, the laying out of contours, the calculation of the capacities of the reservoir, etc., the following operations have to be taken up :—

(1) working out tables of the discharges available at the Thimmalapuram site,

(2) working out the surplus discharge from the reservoir, fixing the surplus site and working out details of surplus works,

(3) working out capacities, etc., of the reservoir as soon as levels are ready,

(4) working out draw-off statements for the reservoir based on the calculated discharges to estimate what extent of land the project can irrigate,

(5) inspection of the canal line from the Hagari to the Anantapur district and supervision of the work of the investigating party there,

(6) inspection of the Pulichintala site and making out estimates for a diversion dam at the place.

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5. For all this, it seems desirable to appoint an Executive Engineer with a suitable establishment. The Chief Engineer is requested to give his opinion on the matter and, if he thinks necessary, to submit proposals for the formation of a special division with a proposition statement for the establishment required.

6. The general idea of the project as now in view includes the irrigation of—

(1) areas in the Hadagalli, Hospet and Rayadrug taluks in the Bellary district,

(2) areas in the Gooty, Anantapur and Dharmavaram taluks, the last two by means of a branch canal taken across the Pennar,

(3) areas irrigable by the proposed Upper Pennar (Tadpatri) canal system,

(4) areas irrigable by a widened Kurnool-Cuddapah Canal and the Velgode project, the latter being extended to Badvel and Sidhout taluks in the Cuddapah district,

(5) areas irrigable by the Owk Project and canal from the Kunderu *via* Nossam to Jammalamadugu,

(6) area irrigable by a diversion dam across the Kistna at Pulichintala, and canal system in the Guntur district (Col. Ellis' old Kistna Reservoir Project),

(7) Kistna delta extensions and second crop in the delta.

The investigation of the project on the engineering side has of course not advanced far enough to enable a regular revenue forecast to be prepared at present; but the Board of Revenue is requested to make a general investigation of the probable demand for irrigation (especially second crop) in the above areas and submit a preliminary report on the possibilities assuming that the proposed reservoir is feasible.

F. B. Evans,
*Secretary to Government.*

To the Chief Engineer for Irrigation.
,, Board of Revenue.
Copy to the Chief Engineer, General and Establishment.



TRUTH ALONE TRIUMPHS